SWP Weekly Water Quality Summary

June 15 to June 22, 2010

Electrical Conductivity (EC): Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Barker Slough and Vallecitos but increased at Check 29 and Check 41 from June 15, 2010 to June 22, 2010. EC ranged from 230 to 517 µS/cm (138 to 310 mg/L) and was below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L). As of June 22, 2010, the lowest concentration of 230 µS/cm (138 mg/L) occurred at HBP, while the highest concentration of 517 µS/cm (310 mg/L) occurred at Check 29. Concentrations at HBP decreased from 235 µS/cm on June 15 to 230 µS/cm (141 to 138 mg/L) on June 22, 2010.

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all locations and ranged from 0.06 to 0.22 mg/L. As of June 22, HBP had the lowest concentration of 0.06 mg/L, while the highest concentration of 0.22 mg/L occurred at Check 29.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels decreased at all locations from June 15 to June 22, 2010and ranged from 7.9 NTU to 59.7 NTU. As of June 22, 2010, the lowest level of 7.9 NTU occurred at Check 29, while the highest level of 59.3 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 16.6 NTU to 15.4 NTU as of June 22, 2010.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.6 mg/L to 2.7 mg/L at HBP, from 3.1 mg/L to 3.2 mg/L at Edmonston but decreased from 3.4 mg/L to 3.2 mg/L at Check 13 as of June 22, 2010.

Taste and Odor Compounds: As of June 20 and 21, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect (<1 ng/L) to 2 ng/L at Clifton Court Inlet, HBP, O'Neill Outlet, Del Valle Check 7, Pacheco PP Outlet, Check 66, Lake Perris, and Silverwood Lake.

Ground water pump-ins to the California Aqueduct from June 15 to June 22, 2010 totaled 5,316 AF. The breakdown of the total volume was:

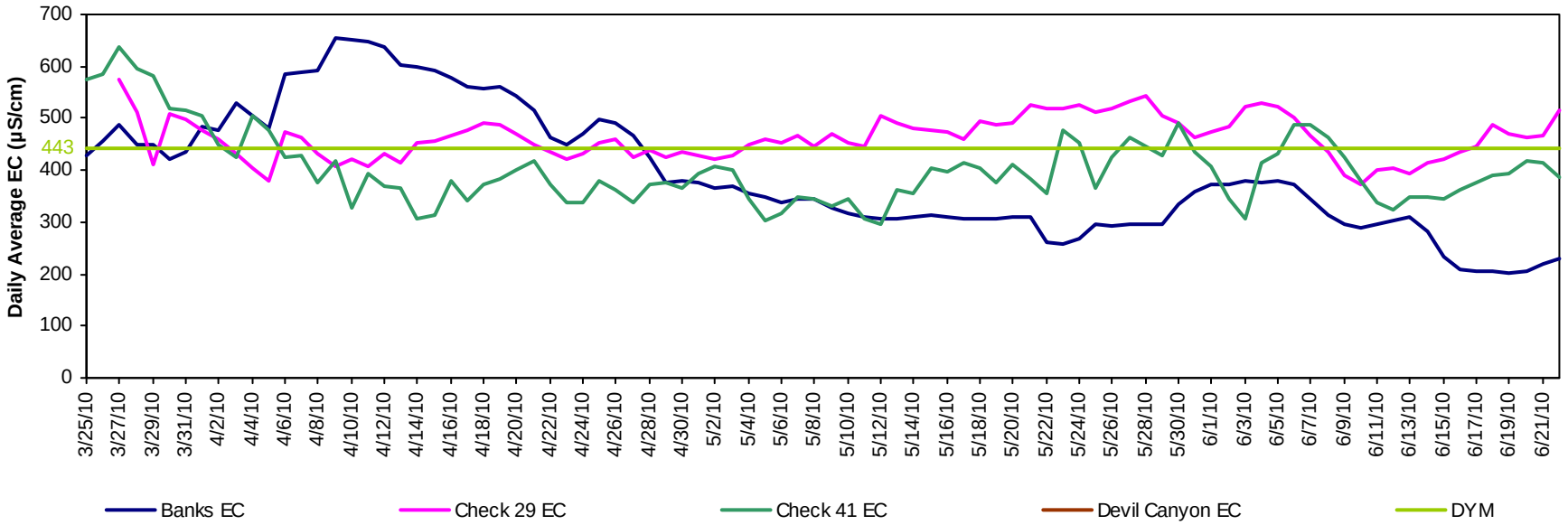
- Arvin-Edison Water Storage District = 0 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 1,376 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 806 AF
- Semitropic (2&3) Water Storage District = 3,134 AF
- Wheeler Ridge Maricopa Water Storage District = 0 AF

As of June 22, 2010, no data were available for Devil Canyon due to malfunctioning instruments.

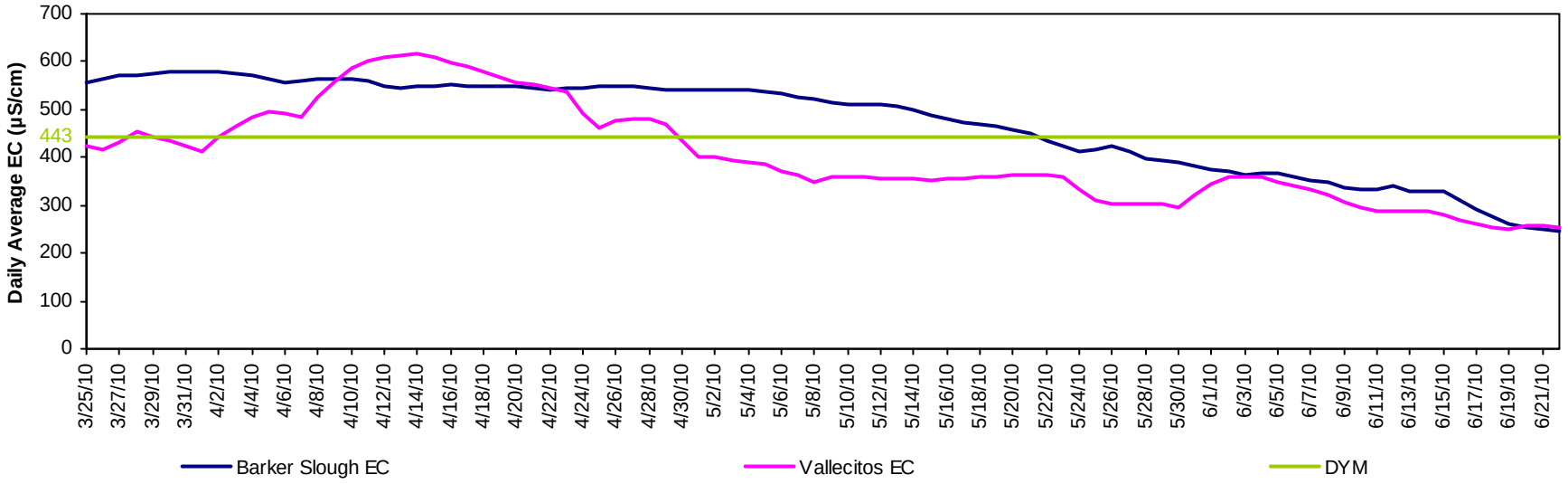
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

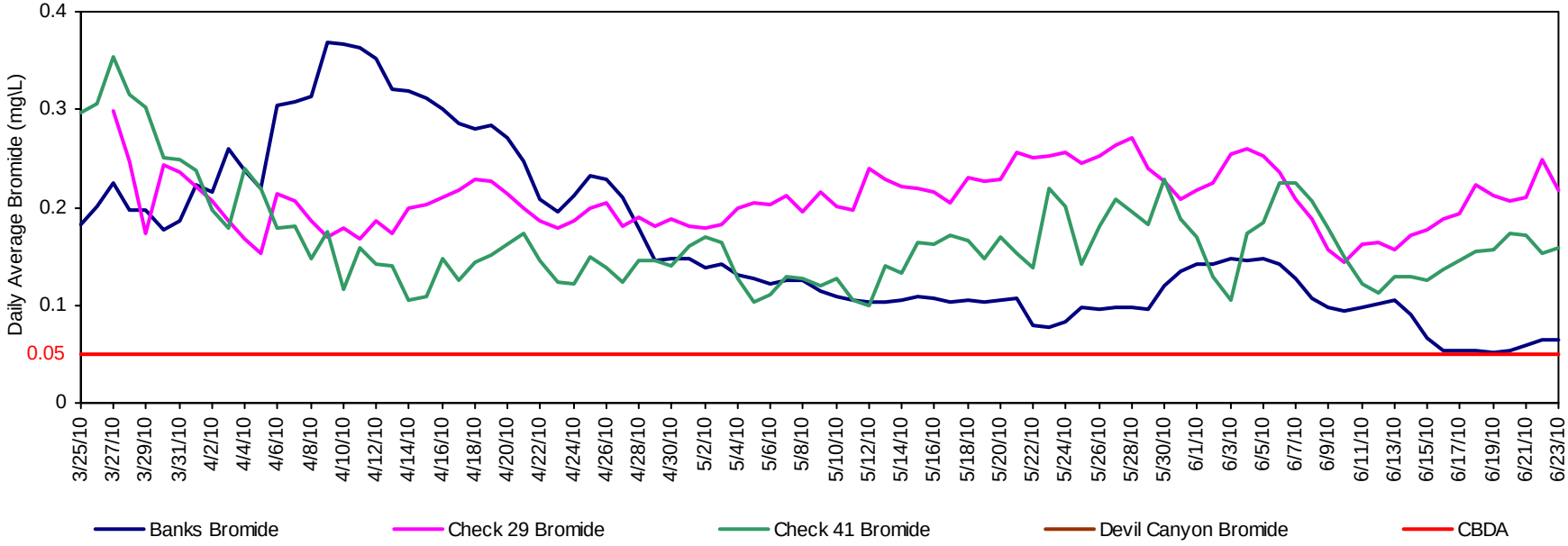
California Aqueduct - Electrical Conductivity



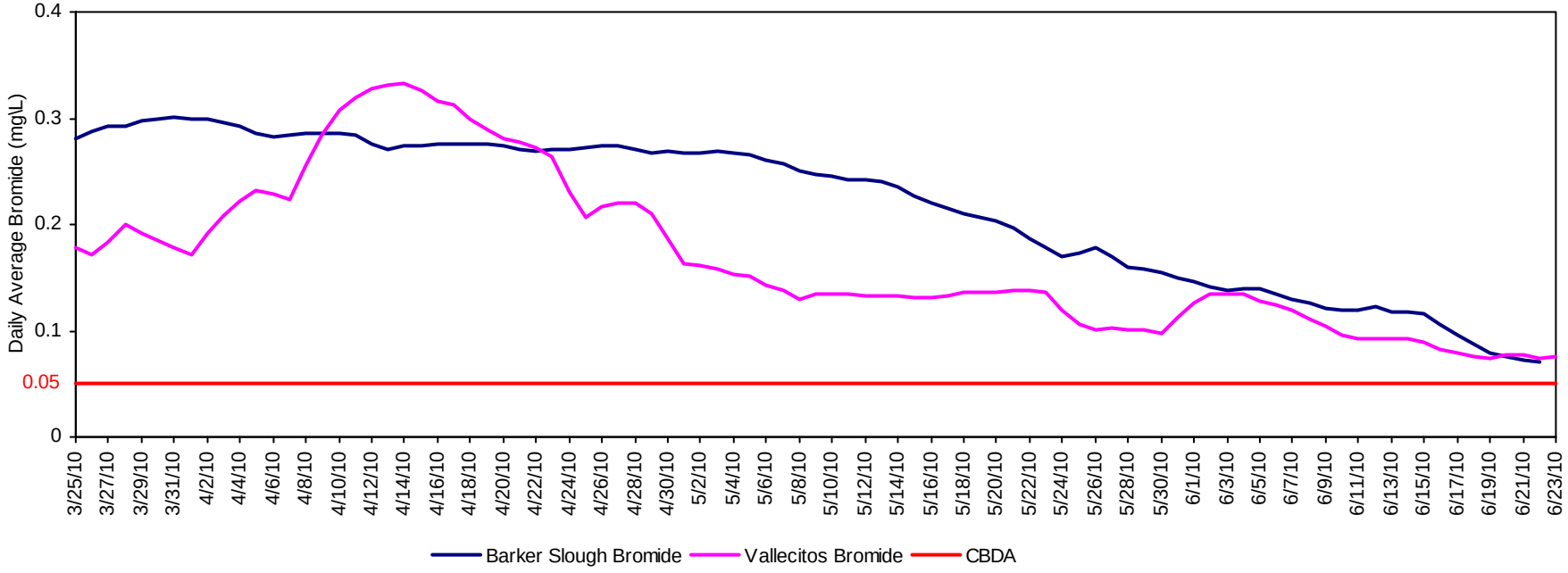
North and South Bay Aqueduct - Electrical Conductivity



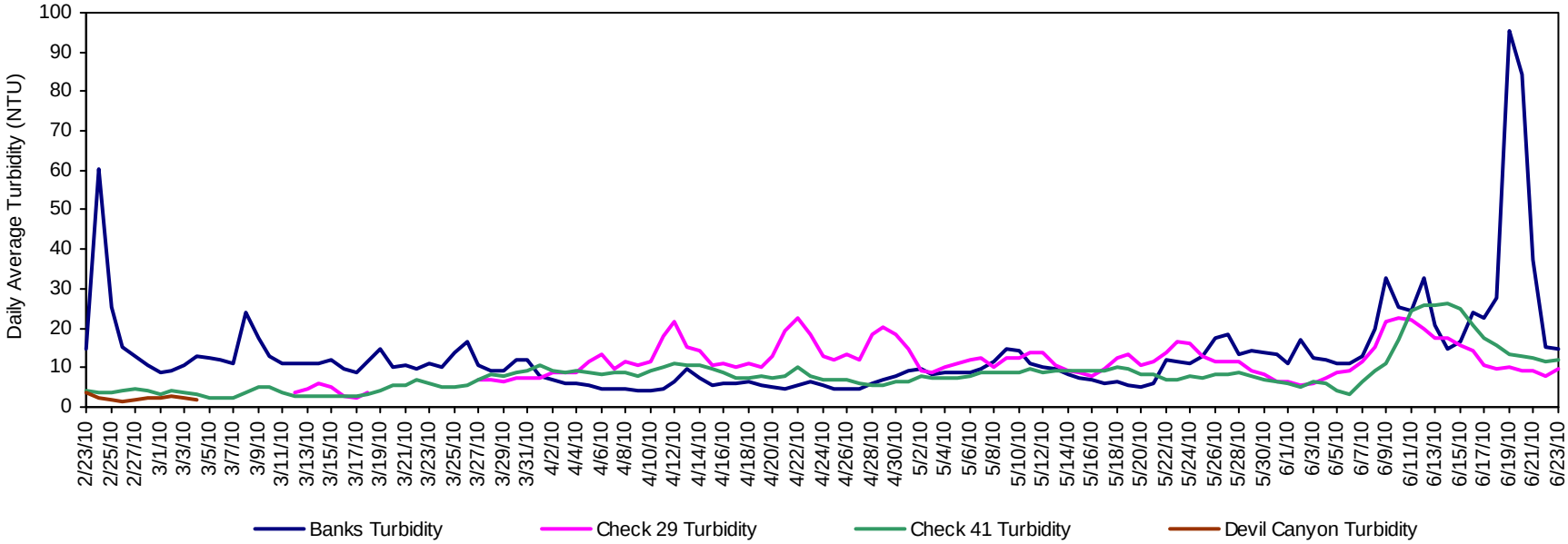
California Aqueduct - Calculated Bromide



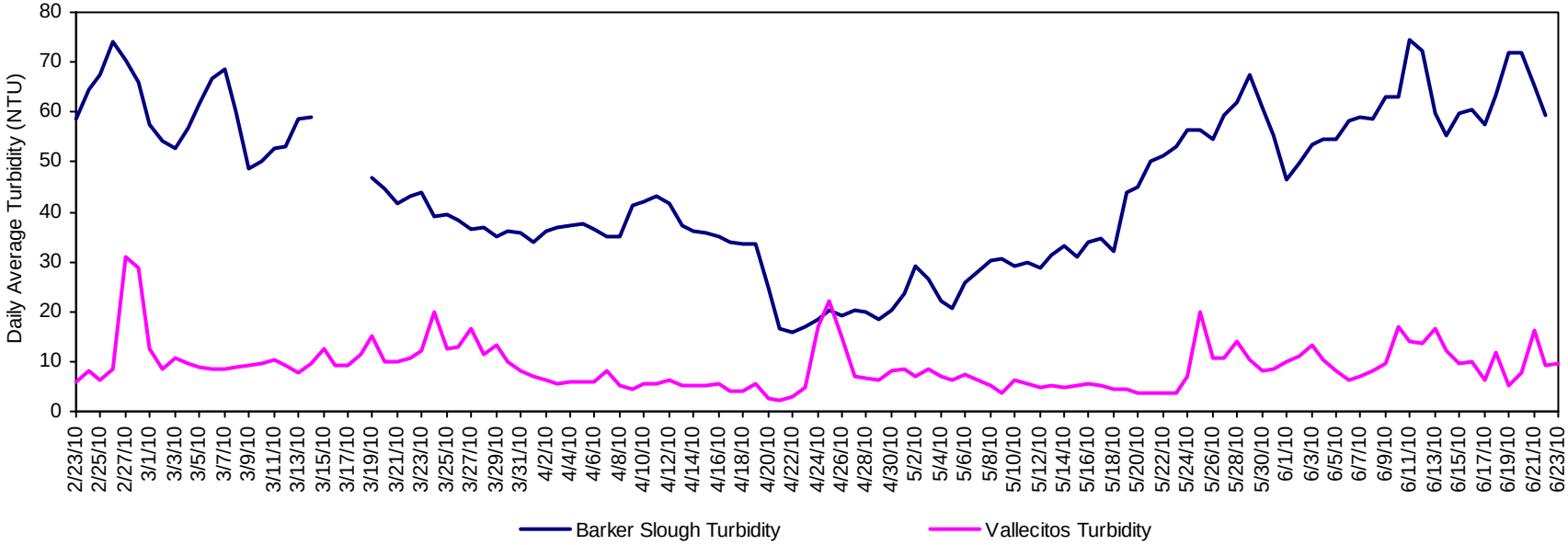
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon